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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/083,890	02/27/2002	Narayanan Venkitaraman	CM05034H 2114		
22917	7590 05/19/2006		EXAMINER		
MOTOROL	A, INC. ALGONQUIN ROAD	HARPER, KEVIN C			
IL01/3RD	LGONQUIN KOAD	ART UNIT	PAPER NUMBER		
SCHAUMBU	JRG, IL 60196	2616			
		DATE MAILED: 05/19/2006			

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application	on No.	Applicant(s)		A	
Office Action Summary		10/083,89	00	VENKITARAMAN E	ET AL.		
		Examiner		Art Unit			
		Kevin C. F	•	2616			
 Period for	The MAILING DATE of this communication a Reply	appears on the	cover sheet with the d	correspondence add	iress		
THE MA - Extension after SID - If the pe - If NO pe - Failure to Any repi	RTENED STATUTORY PERIOD FOR REFAILING DATE OF THIS COMMUNICATION ones of time may be available under the provisions of 37 CFR (6) MONTHS from the mailing date of this communication. riod for reply specified above is less than thirty (30) days, a riod for reply is specified above, the maximum statutory perion or reply within the set or extended period for reply will, by stat y received by the Office later than three months after the manatent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no ever reply within the statu od will apply and wi tute, cause the appl	ent, however, may a reply be tin story minimum of thirty (30) day Il expire SIX (6) MONTHS from ication to become ABANDONE	mely filed /s will be considered timely. In the mailing date of this core ED (35 U.S.C. § 133).	mmunication.		
Status							
1)⊠ R	esponsive to communication(s) filed on 23	February 200	06.				
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3)□ S	ince this application is in condition for allow		osecution as to the	merits is			
cl	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition	n of Claims						
4a 5)□ C 6)⊠ C 7)□ C	laim(s) 16,19,20 and 24-40 is/are pending b) Of the above claim(s) is/are withd laim(s) is/are allowed. laim(s) 16,19,20 and 24-40 is/are rejected. laim(s) is/are objected to. laim(s) are subject to restriction and	rawn from cor	nsideration.				
Application	n Papers						
9)[] Th	e specification is objected to by the Exami	iner.					
10)[Th	ie drawing(s) filed on is/are: a)□ a	ccepted or b)	objected to by the	Examiner.			
	oplicant may not request that any objection to the			* *			
	eplacement drawing sheet(s) including the corre			=).	
11)∟ !r	e oath or declaration is objected to by the	Examiner. No	te the attached Office	Action or form PT	O-152.		
Priority un	der 35 U.S.C. § 119						
a)□ 1. 2. 3.	knowledgment is made of a claim for foreign All b) Some * c) None of: Certified copies of the priority docume Certified copies of the priority docume Copies of the certified copies of the priority docume application from the International Burse the attached detailed Office action for a lie	ents have been ents have been riority docume eau (PCT Rule	n received. n received in Applicat ents have been receive e 17.2(a)).	ion No ed in this National S	Stage		
Attachment(s)							
	f References Cited (PTO-892)		4) Interview Summary				
3) 🔲 Informal	f Draftsperson's Patent Drawing Review (PTO-948) ion Disclosure Statement(s) (PTO-1449 or PTO/SB/0 o(s)/Mail Date	08)	Paper No(s)/Mail D 5) Notice of Informal F 6) Other:		·152)		

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Response to Arguments

Applicant's arguments filed February 23, 2006 have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Lim in view of Malki and Sorensen.

Claim Objections

1. Claims 38-40 are objected to because text is missing after the fifth line of the claim "home agent of the mobile node; and...". Appropriate correction is required.

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 16, 19, 20 and 24-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lim (US 6,697,355) in view of Malki et al. (US 2001/0046223) and Sorensen (US 2002/0061009).

Regarding claims 16, 19 and 24-29, Lim discloses in a communication system supporting mobile IP (abstract, lines 1-2), where a mobile node (fig. 3, MHT) connects to a network infrastructure (item 400) via a gateway router (GWR1 or GWR2), a method comprising the mobile node attaching to a mobile gateway router (fig. 3, MRT21) associated with a mobile network which is a home network of the mobile node (col. 5, lines 44-47). However, Lim does not disclose the mobile node determining that it is attached to the mobile gateway router, obtaining a care-of-address, sending the care-of-address to the home agent of the mobile node,

and maintaining a binding update list of correspondent nodes that the mobile node has been communicating with. Malki discloses a mobile node determining that it is attached to a mobile gateway router (figs. 2-3; para 32, lines 1-5), determining a care-of-address that is the home address of the mobile gateway node (para. 32, lines 6-10), sending the care-of-address to the home agent of the mobile node (para. 32, lines 15-19), and maintaining an inherent binding update list of correspondent nodes that the mobile node has been communicating with (para. 32, lines 18-19). Further regarding claim 19, the mobile node of Malki is a mobile router (note: the mobile node performs Internet routing functions by forwarding IP packets to correspondent nodes -- para. 9, lines 8-10). Regarding claim 28, the binding update is sent in response to a tunneled packet from a correspondent node (fig. 10, steps 1010, 1020, 1040). Regarding claim 29, the mobile node identifies a packet from a correspondent node that did not traverse the home agent (fig. 10, step 1030; para. 50, last four lines). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to self-register the mobility of a mobile node with a home agent in the invention of Lim in order to enhance mobility registration by controlling network messages by the mobile node (Malki, para. 54, last nine lines).

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3. Further, Lim in view of Malki does not disclose a mobile gateway router having mobility. Sorensen discloses an ad hoc mobile gateway router having mobility (fig. 2; para 24, lines 4-7). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to have mobility for a mobile gateway router in the invention of Lim in view of Malki in order to movable network interfaces or gateways such as within a car or bus as is known in the art

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- 4. Regarding claim 20, in Lim the mobile node (fig. 3, MHT) is detached from a mobile network (fig. 3, item 302; col. 5, lines 47-50).
- Regarding claims 30-40, Lim discloses a mobile router having mobile nodes (fig. 3). However, Lim does not disclose detaching from the mobile gateway router, attaching to a second mobile gateway router and sending binding updates. Malki discloses choosing a new mobility point and sending binding updates (fig. 7, steps 710, 720 and 760) to correspondent nodes of a binding update list (para. 32, lines 18-19). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to self-register the mobility of a mobile node with a home agent in the invention of Lim in order to enhance mobility registration by controlling network messages by the mobile node (Malki, para. 54, last nine lines) and provide for free movement within a communications system (para. 4, lines 1-5).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Harper whose telephone number is 571-272-3166. The examiner can normally be reached weekdays from 11:00 AM to 7:00 PM ET.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Doris To, can be reached at 571-272-7629. The centralized fax number for the Patent Office is 571-273-8300. For non-official communications, the examiner's personal fax number is 571-273-3166 and the examiner's e-mail address is kevin.harper@uspto.gov. Previous art units 2661-2668 have merged to form a new art unit 2616. A similar restructuring has taken place for all other art units in TC 2600.

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Kevin C. Harper

May 14, 2006